QC ABSTRACT

NAME OF WORK: Emergency Works in Chowdeshwari Ward No-02 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
3	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
4	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-05-05-37 **Date: 03-10-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri.D.V. Kumar, No.657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/ 38 /2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-09-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2. Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3. Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4. Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5. Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11.DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.54	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.2	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-05-05-37 **Date: 29-10-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri.D.V. Kumar, No:657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/ 38 /2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-09-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 03-10-20

Lab ID	:	CP-2021-05-05-37
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri.D.V. Kumar, No:657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/ 38 /2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-09-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	30-09-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	240	322	32.2	67.8	30-70	55-90	75-100	90-100
5	600 micron	206	528	52.8	47.2	15-34	35-59	60-79	80-100
6	300 micron	205	733	73.3	26.7	5-20	8-30	12-40	15-50
7	150 micron	191	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-05-05-37** **Date: 03-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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* The Results Obtained are Satisfactory as per Standard Requirements

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-05-05-37** **Date: 10-10-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri D.V. Kumar, No:657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/ 38 /2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-20
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	05/10/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	2.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	2.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	2.118	4476	81.5	18.2	16.9	21.2

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* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-05-05-37** **Date: 10-10-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri.D.V. Kumar, No:657, 5th Main Road, L.G.Ramanna Layout, Laggere, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/ 38 /2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-20
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	05/10/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

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